

**CERTIFIED AGGREGATE TECHNICIAN TRAINING COURSE AGENDA**

Title – Time	Subjects	Instructor	Reference
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**Monday Morning**  
Moderator: Ron Walker

Introduction

10:00 to 10:15	Opening Comments  Agenda/Manual Update	Ron Walker	
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CAPP Technician Program Responsibilities

10:15 to 10:30	Industry Perspective	Bruce Mason	
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Math for Aggregates

10:30 to 11:15	Round-Off Rules  Calculator Operation  Mean  Standard Deviation  Moving Average	Ron Walker (Mike Prather)	Chp 1
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Geology

11:15 to 12:00	Origin	Nelson Shaffer (John Hill)	Chp 2
12:00 to 1:00	** LUNCH **		

**Monday Afternoon**  
Moderator: Ron Walker

Aggregate Quality

1:00	Aggregate Types & Terms	Bob Rees	Chp 2
to		(Eric Woodings/ Angela Rose)	
2:00	Properties		Chp 3
	Quality Requirements		Chp 4
2:00 to 2:15	** BREAK **		

Tests for Quality Rating

2:15	Absorption	Bob Rees	Chp 4/Chp 10
to		(Eric Woodings/ Angela Rose)	
3:00	Abrasion Resistance		
	Soundness		
	Deleterious Materials		
	Special Requirements		
	Deleterious Sample Kits		
3:00 to 3:15	**BREAK**		

Test for Quality Rating (continued)

3:15	Bob Rees
to	(Eric Woodings/ Angela Rose)
4:00	

Help Session

7:30	Holiday Inn Express: Bob Lingerfelt/Trent Sanders Steve Roseberry/Dave Hamilton Jon Havens/Deana Miner Trina Smart/Rich Brooks
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**Tuesday Morning**  
Moderator: Ron Walker

Math Homework Review

8:00 to 8:10	Answers & Discussion	Ron Walker (Mike Prather)	Handout
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Processing

8:10 to 9:00	Extraction	Bob Lingerfelt (Steve Roseberry/ George Williams)	Chp 5
	Crushing		
	Other Benefaction		
	Screening		
	Sand Production		
	Segregation		
	Stockpiling and Handling		
	Degradation		
	Contamination		
	Retrieval		

Segregation

9:00 to 9:30	Video	Dave Hamilton Mark Miller Kurt Sommer	
9:30 to 9:45	** BREAK **		

Test Equipment

9:45 to 10:15	Suggestions	Stu Schwotzer (Jim Fletcher)	Chp 8
	Manufacturers & Cost		Handout

Test Equipment Verification

10:15 to 10:30	Procedures	Harley Phillips (Mike Prather)	Chp 8 ITM 211-9.0
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### Lab Layout

10:30  
to  
11:00

Suggestions

George Williams  
(Bob Lingerfelt/  
Steve Roseberry)

### Production Sampling

11:00  
to  
11:30

Sampling Techniques

Steve Roseberry  
(Bob Lingerfelt/  
George Williams)

Chp 9

### Stockpile Sampling

11:30  
to  
12:00

Safety

Dave Hamilton  
Mark Miller  
Kurt Sommer

Chp 9

Sampling Technique

Chp 9/Video

Sample Reduction & Sample Size

Chp 9/Video

12:00 to 1:00

\*\* LUNCH \*\*

**Tuesday Afternoon**  
Moderator: Ron Walker

Aggregate Testing

1:00 to 2:30	Decant	Dave Hamilton Mark Miller	Chp 10/Video
	Sieve Analysis	Kurt Sommer	Chp 10/Video
	Sieve Analysis (Dense Graded)		Chp 10/Video
	Fineness Modulus		Chp 10
	Moisture		Chp 10
	Coarse Aggregate Angularity		Chp 10
	Non-Durable Particles		Chp 10
	Flat and Elongated Particles		Chp 10
	Frequency		Chp 11
	Homework Problems		Handouts
2:30 to 2:45	** BREAK **		

Aggregate Testing (continued)

2:45 to 3:30		Dave Hamilton Mark Miller Kurt Sommer	Chp 10/Chp 11
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Diary

3:30 to 3:45	CAPP Requirements	Mike Prather (Ron Walker)	ITM 211 (10.0)
	Typical Day Examples	Steve Roseberry (George Williams/ Bob Lingerfelt)	Chp 11

CAPP Coordinated Testing

3:45 to 4:00	Monthly Submittals	Mike Prather (Ron Walker)	ITM 211 (15.0)
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Help Session

7:30	Holiday Inn Express: Bob Lingerfelt/Jon Havens Deana Miner/Rich Brooks/ Mike Maggart Dave Hamilton/Stu Schwotzer/Jeff Goshorn Steve Roseberry		
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**Wednesday Morning**  
Moderator: Ron Walker

Aggregate Testing Homework Review

8:00 to 8:15	Answers & Discussion	Ron Walker	Handout
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Quality Control Plans

8:15 to 8:45	CAPP QCP Requirements INDOT QCP Checklist QCP Addenda	Ron Walker (Mike Prather)	Chp 7
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8:45 to 9:45	Quarry QCP	Jon Havens	Chp 7
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9:45	Pit QCP	Rich Brooks (Mike Maggart)	Chp 7
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9:45 to 10:00	** BREAK **
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Aggregate Production Statistical Control

10:00 to 10:15	CAPP Requirements	Ron Walker (Mike Prather)	ITM 211
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10:15 to 12:00	Statistical Quality Control Understanding the Process & Steps for Managing Quality	Jim Plew Eric Reynolds Chuck Sanders	Chp 6
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Statistical Concepts

Letter Counting Exercise

12:00 to 1:00	** LUNCH **
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### Wednesday Afternoon

Moderator: Ron Walker

#### Aggregate Production Statistical Control (continued)

1:00 to 2:00	Z Value	Jim Plew Eric Reynolds Chuck Sanders	Chp 6
2:00 to 2:15	** BREAK **		
2:15 to 3:45	Control Chart Concepts  Control Chart Construction  Control Chart Interpretation	Tony Zander/Chuck Sanders (Ron Walker/Jim Plew/ Eric Reynolds)	Chp 6 ITM 211 (13.4)
3:45 to 4:00	** BREAK **		
4:00 to 4:45	Percent Compliance	Jim Plew Eric Reynolds Chuck Sanders	Chp 6
4:45 to 5:00	Computer Demonstration	Jon Havens Trina Smart	
6:00	** DINNER **		

#### Help Session

7:30	Holiday Inn Express: Jim Plew/Chuck Sanders Trent Sanders/Eric Reynolds/Bob Lingerfelt Trina Smart/Jon Havens/ George Williams Stu Schwotzer/Rich Brooks/Steve Roseberry)		
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**Thursday**  
Moderator: Ron Walker

Lab Demonstration at INDOT Materials & Tests

8:00 to 12:00	Ron Walker, Mike Prather Bob Rees, Angela Rose Eric Woodings, Al Witty Jim Plew, Trinia Smart, Stu Schwotzer
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12:00 to 1:00                      \*\* LUNCH \*\*

Statistical Homework Review

1:00 to 1:30	Answers & Discussion	Tony Zander (Ron Walker)	Handout
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Audits

1:30 to 2:00	INDOT Audits	Mike Prather (Ron Walker)	Appendix D
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Customer Expectations

2:00 to 2:15	Producer Perspective	Ken Wanstrath
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2:15 to 2:30                      \*\* BREAK

2:30 to 3:00	Contractor Perspective (PCCP)	Dick Newell
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3:00 to 3:30	Contractor Perspective (HMA)	Dudley Bonte
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Review Session (Voluntary)

3:30 to 5:00	Ron Walker
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Help Session

6:30	Holiday Inn Express: Bob Lingerfelt/Jon Havens Trent Sanders/John Yzenas/Stu Schwotzer Trina Smart/George Williams/Rich Brooks Jim Plew
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**Friday Morning**  
Moderator: Ron Walker

Course Test

8:00  
to  
12:00

Written Exam